

**Virginia Standards of Learning Assessment  
Grade 5 Science Performance Level Descriptors**

<b>Fail/Does Not Meet</b>	<b>Pass/Proficient</b>	<b>Pass/Advanced</b>
<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> <li>• Identify appropriate Metric/English units, variables, instruments and models. Recognize hypotheses, predictions, inferences and conclusions.</li> <li>• Label models and recognize properties of force, motion, energy and matter.</li> <li>• Identify cell structures, structures of plants and animals, and components of ecosystems, including native Virginia organisms.</li> <li>• Label or identify aspects of Earth-space systems and cycles, characteristics of oceans, weather instruments, rock types, and Earth-moon-sun system.</li> </ul>	<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> <li>• Interpret scientific investigations and explain processes using variables, Metric/English units, instruments, models, inferences and conclusions.</li> <li>• Describe models of waves and circuits, and contrast and compare properties of force, motion, energy and matter.</li> <li>• Classify and explain the life processes and living systems which include plants, ecosystems, cells, and plant and animal resources of Virginia.</li> <li>• Describe Earth-space systems and cycles using weather phenomena, characteristics of the ocean, changing of Earth's surface, and explain the relationship between the Earth-moon-sun and solar system.</li> </ul>	<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> <li>• Design scientific investigations, create models, summarize information, and make conclusions and inferences.</li> <li>• Construct models, and analyze and summarize properties, including the interactions and relationships between force, motion, energy and matter.</li> <li>• Summarize cell structures and life processes of plants and ecosystems, and make inferences and conclusions about the characteristics of organisms, which include native Virginia plants and animals.</li> <li>• Evaluate Earth-space systems and cycles to make inferences and conclusions about Earth-moon-sun relationships, the characteristics of terrestrial and ocean ecosystems, and the human impact on Earth's changing surface.</li> </ul>